

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-026826

(43)Date of publication of application : 30.01.1996

(51)Int.Cl.

C04B 35/49

H01L 41/187

(21)Application number : 06-166880

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(22)Date of filing : 19.07.1994

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(54) PIEZOELECTRIC PORCELAIN

(57)Abstract:

PURPOSE: To produce a piezoelectric porcelain for filters, having a high electromechanical coupling factor, excellent in temperature characteristics of resonance frequency and capable of dealing with a wide band.

CONSTITUTION: This piezoelectric porcelain is obtained by replacing ≥ 0.5 to < 5 mol% Pb atoms in lead zirconate titanate represented by the general formula $aPb(Mg_{1/3}Nb_{2/3})O_3-bPbTiO_3-cPbZrO_3$ [a, b and c are each $1 \leq a \leq 10$; $42 \leq b \leq 60$; $30 \leq c \leq 57$, with the proviso that a, b and c are each mol% and $(a+b+c)$ is 100] with Mg and further adding and including ≥ 0.1 to ≤ 1 wt.% Cr expressed in terms of Cr_2O_3 therein.

LEGAL STATUS

[Date of request for examination] 31.08.1999

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3221241

[Date of registration] 17.08.2001

[Number of appeal against examiner's

[decision of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]